

Amendments to the Specification

Replace the Abstract with the following Replacement Abstract:

An electrical condition monitoring method utilizes measurement of electrical resistivity of an age sensor [303] made of a conductive matrix or composite disposed in a polymeric structure such as an electrical cable [301]. The conductive matrix comprises a base polymer and conductive filler. The method ~~comprises a means for~~ includes communicating the resistivity to a measuring instrument [317] and ~~a means to correlate~~ correlating resistivity of the conductive matrix of the polymeric structure with resistivity of an accelerated-aged conductive composite.